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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/086,579	02/28/2002	Bernd Lamberts	SJO919980105US1	9017	
7	590 03/30/2005	EXAMINER			
DAVID W LYNCH			FIGUEROA, NATALIA		
	MAUNU PLLC LAND DRIVE	ART UNIT	PAPER NUMBER		
SUITE 390		2651			
MENDOTA H	IEIGHTS, MN 55120		DATE MAILED: 03/30/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		/	Application No.	Applicant(s)				
Office Action Summary			10/086,579	LAMBERTS, BER	≀ND			
		Ī	Examiner	Art Unit				
			Natalia Figueroa	2651				
 Period for	The MAILING DATE of this communic Reply	ation appea	ers on the cover sheet with	the correspondence ac	Idress			
THE M - Extensi after SI - If the p - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FO ALLING DATE OF THIS COMMUNIC ions of time may be available under the provisions of time may be available under the provisions of X (6) MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) eriod for reply is specified above, the maximum state to reply within the set or extended period for reply work ply received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(inication. days, a reply wintory period will in the case of the cas	a). In no event, however, may a reply thin the statutory minimum of thirty (3 apply and will expire SIX (6) MONTH! use the application to become ABAN	be timely filed 0) days will be considered timels from the mailing date of this considered (35 U.S.C. § 133).				
Status								
1)⊠ F	Responsive to communication(s) filed	on <u>01 Dec</u>	<u>ember 2004</u> .					
2a)⊠ T	This action is FINAL . 2b) This action is non-final.							
3)□ S	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
C	closed in accordance with the practice	e under <i>Ex</i>	parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Dispositio	n of Claims							
4) 🛛 C	4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.							
4	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) 🗌 C	Claim(s) is/are allowed.			·				
6)⊠ C	Claim(s) <u>1,2,4-6,8,9 and 11-13</u> is/are	rejected.	•					
-	Claim(s) <u>3,7,10 and 14</u> is/are objected							
8)∐ C	Claim(s) are subject to restricti	on and/or e	lection requirement.					
Applicatio	n Papers							
9)□ Ti	he specification is objected to by the	Examiner.						
10)□ T	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
A	applicant may not request that any object	ion to the dra	awing(s) be held in abeyance.	See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including t			•				
11)∐ Ti	he oath or declaration is objected to	by the Exan	niner. Note the attached O	ffice Action or form P1	ГО-152.			
Priority un	der 35 U.S.C. § 119		,					
a) [cknowledgment is made of a claim for All b) Some * c) None of: Certified copies of the priority decrease.	ocuments h	nave been received. nave been received in Appl	lication No				
3	. Copies of the certified copies of	· · · · · ·		ceived in this National	Stage			
* Se	application from the Internation e the attached detailed Office action	•	• • • •	reived				
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Attachment(s	;)							
	of References Cited (PTO-892)		4) Interview Sum					
_	of Draftsperson's Patent Drawing Review (PTo ation Disclosure Statement(s) (PTO-1449 or P			ail Date mal Patent Application (PTC	D-152)			
	No(s)/Mail Date	. 5.55.00)	6) Other:	and tradition business (

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DETAILED ACTION

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Claim Objections

1. Claim 1 is objected to because of the following informalities: Examiner suggests the applicant examines in claim1, line 3. It reads, "measuring a write width for all a plurality of heads in a disk drive", examiner suggests measuring a write width for all of a plurality of heads in a disk drive". Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2, 4-6, 8-9 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohinata et al (USPN 6,198,583), hereinafter Ohinata.

RE claim 1, Ohinata discloses a method for reducing the servo position error signal non-linearity during self-servo writing, comprising measuring a write width for all a plurality of heads in a disk drive (col. 6, lines 28-30 and col. 1, line 18); and adjusting a write current for each head in the disk drive toward a predetermined level (col. 3, lines 21-24 and col. 5, lines 34-38).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to improve the method as disclosed by Ohinata. As disclosed by the Ohinata reference increasing the number of disks can increase the capacity of an HDD, hence

increasing the number of heads. One skilled in the art would find obvious to repeat the action of measuring for all the heads.

RE claim 2, Ohinata further discloses determining a mean track propagation width for the disk drive, the predetermined level establishing a mean track propagation (column 6, lines 43-51).

RE claim 4, Ohinata further discloses the step of verifying the optimal performance is achieved using the adjusted write currents (column 6, lines 20-23).

RE claim 5, Ohinata further discloses the verifying further comprises repeating the measuring and adjusting until a track propagation for the disk drive meets a predetermined criteria (column 3, lines 30-31).

RE claim 6, Ohinata further discloses the predetermined criteria comprises a predetermined minimum threshold (column 5, lines 25-26, the minimum track width is TA).

RE claim 8,Ohinata discloses a disk drive, comprising a plurality of data storage media mounted for simultaneous rotation about an axis (column 1, line 1 8); an actuator for moving each of a plurality of heads relative to an associated data storage media for reading and writing data to the associated data storage media (column 7, lines 65-67 and column 8, lines 1-3), and a disk controller for writing a data pattern to respective data storage media utilizing each of the plurality of heads, wherein the disk controller measures the write width for each of the plurality of heads (col. 6, lines 28-30, col. 1, line 18) and adjusts a write current for each of the plurality of heads toward a predetermined level (col. 3, lines 21-24 and col. 5, lines 34-38).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to improve the method as disclosed by Ohinata. As disclosed by

the Ohinata reference increasing the number of disks can increase the capacity of an HDD, hence increasing the number of heads. One skilled in the art would find obvious to repeat the action of measuring for all the heads.

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RE claims 9 and 11-13, apparatus claims 9 and 1 1-13 are drawn to the apparatus corresponding to the method of using same as claimed in claims 2 and 4-7. Therefore apparatus claims 9 and 1 1-13 correspond to method claims 2 and 4-7, and are rejected for the same reasons of obviousness as used above.

Allowable Subject Matter

4. Claims 3, 7, 10 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments, see pages 5-7, filed 01 December 2004, with respect to the rejection(s)of claim(s) 1 and 8 under 35 USC § 102 have been fully considered but are not persuasive.

Applicant argues, "Ohinata therefore fails to disclose, teach or suggest measuring the write width for a plurality of heads in a disk drive." Examiner disagrees because Ohinata does teach a stack of multiple disks and it also teaches measuring the width of a recording head. The reference does teach the executing of the actual operation.

Applicant also argues that it, "fails to disclose, teach or suggest adjusting a write current toward a predetermined level for each head of a plurality of heads in a disk drive". The arguments are moot in view of the new ground(s) of rejection.

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Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalia Figueroa whose telephone number is (571) 272-7554. The examiner can normally be reached on Monday - Thursday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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